

REMARKS

Claim 1 was rejected under 35 U.S.C. 102(b) as being anticipated by Momose; claims 2, 4-6 and 8 were rejected under 35 U.S.C. 103(a) as being unpatentable over Momose in view of Kabir; and claims 3 and 7 were rejected under 35 U.S.C. 103(a) as being unpatentable over Momose and Kabir as applied to claims 1 and 5 of the instant application, and further in view of Prior Art Figure 1.

Claim 1 was rejected by the examiner under 35 U.S.C. 102(b) using Momose (5,198,692). The examiner states that Momose teaches a counterdoped collector region 3. In fact Momose does not teach a counterdoped collector as that word is used in the instant application. Momose teaches a n-type epitaxial collector region (Col. 2, line 66, to col. 3., line 1). This expiaxial layer is grown using SiH_2Cl_2 and made n-type. The word counterdoped is not used in the Momose patent nor is any process described in the Momose patent that could lead one to the idea of a counterdoped collector region. Counterdoping refers to a specific state which is not present in the collector region of the Momose patent. As such the Momose patent is an invalid 102(b) reference. Since claims 2, 4-6, 8 all contain the limitation of a counter doped collector then they are all allowable over the Momose patent either singly or combined with the Kabir et al. patent (6,346,452 B1). Furthermore since claims 3 and 7 also contain the limitation of a counter doped base they are also allowable over the Momose patent either singly or in combination with the Kabir et al. patent (6,346,452 B1) and Figure 1.

In light of the above, it is respectfully submitted that the present application is in condition for allowance, and notice to that effect is respectfully requested.

While it is believed that the instant response places the application in condition for allowance, should the Examiner have any further comments or suggestions, it is respectfully requested that the Examiner contact the undersigned in order to expeditiously resolve any outstanding issues.

To the extent necessary, Applicants petition for an Extension of Time under 37 CFR 1.136. Please charge any fees in connection with the filing of this paper, including extension of time fees, to the deposit account of Texas Instruments Incorporated, Account No. 20-0668.

Respectfully submitted,



Peter K. McLarty
Agent for Applicants
Reg. No. 44,923

Texas Instruments Incorporated
P.O. Box 655474, MS 3999
Dallas, TX 75265
(972) 917-4258